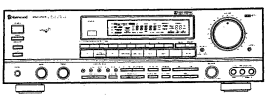
OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG



RV-6030R

AudioVideo

Dolby Prologic Stereo-Receiver

Sherwood

Unpacking and Installation

Congratulations on Your Purchase!

Your new high fidelity Receivers is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your unit and help ensure a trouble free installation.
Please unpack your unit carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your unit is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience. To avoid damage, never place the unit near radiators, in front of heating vents, in direct sun light, or in excessively humid or dusty location.
Connect your complementary components as illustrated in the following section.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attention: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

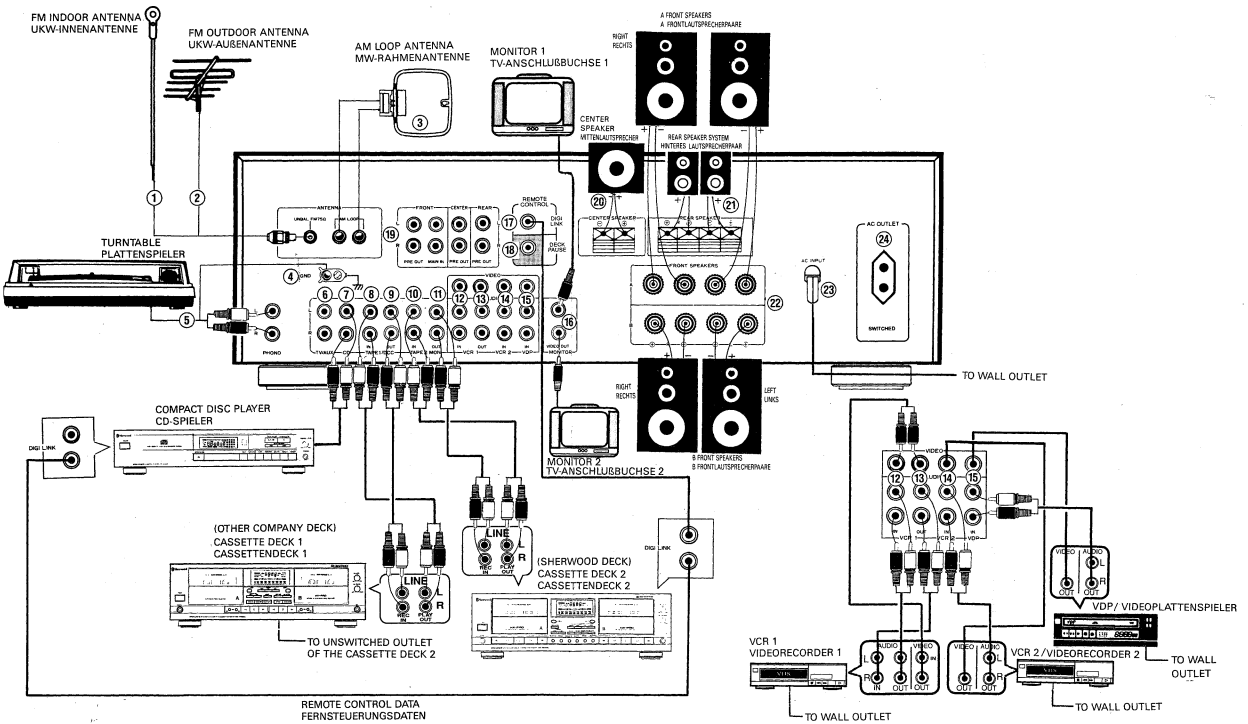
Read this Before Operating Your Unit

For Europe 220V/240V

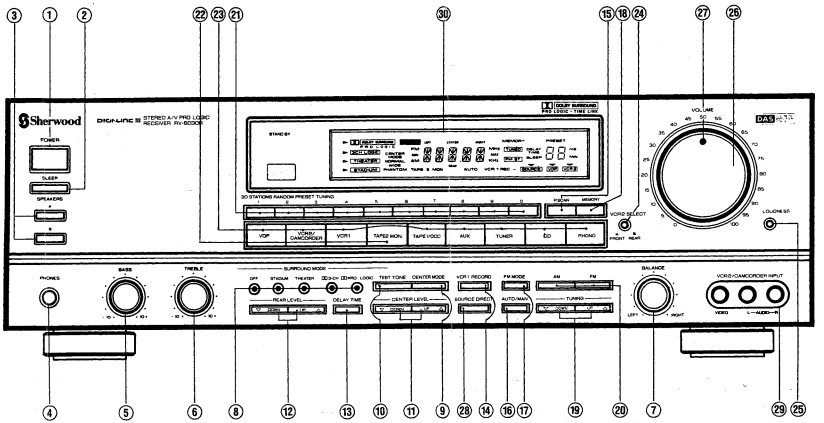
FOR YOUR SAFETY

To ensure safe operation the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.
Pan-European unified voltage.
All units are suitable for use on supplies 220-240V AC.

Rear Panel Connections
Anschlüsse auf der Rückseite



Front Panel Controls
Bedienungselemente auf der Vorderseite



Rear Panel Connections

1. FM INDOOR ANTENNA

Connect the supplied antenna (the wire lead) to the FM antenna terminal, as shown in the Rear Panel Connection Diagram. Change the position of the antenna until you get the best reception of your favorite stations.

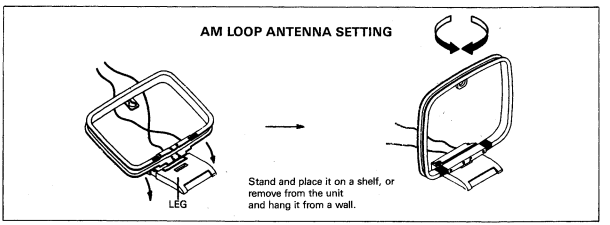
2. FM OUTDOOR ANTENNA

An outdoor FM antenna of 75 ohm may be used to further improve the sound quality of the reception. Disconnect the indoor antenna before replacing it with the outdoor one.

3. AM LOOP ANTENNA

Tune in your favorite AM station and position the loop antenna for best reception. Try other stations and find the position that gives best overall reception. If this unit is mounted on a rack or placed on a shelf and you find that there is insufficient space behind, hang it on a wall in the direction which gives best reception.

NOTE: If noise is heard during AM reception, move it for best reception.
To prevent undesired noise, AM LOOP ANTENNA should be located away from the DIGI-LINK cord by at least 12 inches (30cm).



4. SYSTEM GROUND TERMINAL

To reduce hum to a minimum, connect the ground lead from your TURNTABLE to this terminal.

5. PHONO INPUT JACKS

Input for TURNTABLE with a magnetic or variable-reluctance cartridge having 47,000 ohms of load impedance. Connect shielded cables from your phono to the LEFT and RIGHT input jacks.

NOTE: To avoid feedback caused by transmission of the speaker vibration to the turntable, do not place the turntable on a speaker enclosure.

6. TV/AUX INPUT JACKS

This extra stereo input is provided for any level source you may send to your receiver. An additional compact disc player (CD), tape recorder, a video tape recorder (VTR), TV, a turntable with ceramic cartridge or similar high level source can be plugged into auxiliary input and selected by the front panel FUNCTION selector button.

7. CD INPUT JACKS

Connect the output cables of the compact disc player to the jacks marked CD, matching the L (left) and R (right).

8. TAPE 1/DCC IN (PLAY) JACKS

Input for your DCC or TAPE DECK. Connect the line output of your DCC or TAPE DECK to these jacks. The playback signal is selected as a listening source by pressing the TAPE 1/DCC button.

9. TAPE 1/DCC OUT (REC) JACKS

Output for your DCC or TAPE DECK. Connect the line input of your DCC or TAPE DECK to these jacks.

10. TAPE 2 MONITOR IN (PLAY) JACKS

The output signal coming from your TAPE DECK during playback is fed into these jacks and selected as a listening source by pressing the TAPE 2 MONITOR switch on the front panel (TAPE 2 MONITOR flag indicator lights up) regardless of the position of FUNCTION selector. This input may be connected to the line output of the audio processor such as an optional graphic equalizer or Digital Signal Processor.

11. TAPE 2 MONITOR OUT (REC) JACKS

The signal from these jacks is fed to the REC of the TAPE DECK for recording purposes. Select the source to be recorded with the FUNCTION selector switch on the front panel. The 5 Band EQ controls, loudness and volume settings have no effect on the signal from this output while recording except the FUNCTION SELECTOR switch. To monitor this source while recording, press the TAPE monitor button (MONITOR ON position) and adjust VOLUME, etc. to the desired listening level. These REC jacks may be used for the line input of an audio processor such as an optional graphic equalizer or Digital Signal Processor.

NOTE: When you use two cassette decks, connect the Sherwood cassette deck having DIGI-LINK III to the TAPE 2 MONITOR jacks. This is because the input function of TAPE 2 MONITOR is automatically selected when you press the PLAY or REC button on your cassette deck by the DIGI-LINK III.

12. VIDEO/AUDIO INPUT (PLAY) JACKS OF VCR 1

The VIDEO and AUDIO OUTPUT signals coming from your TV or VCR are fed into these jacks. Connect these jacks to the VIDEO and AUDIO OUTPUT of your TV or VCR.

13. VIDEO/AUDIO OUTPUT (REC) JACKS OF VCR 1

Your VCR will have one VIDEO input jack and either two (stereo) or one (mono) AUDIO input jack(s) for recording VIDEO and AUDIO signals. Connect these jacks to the corresponding INPUT jacks of the VCR;

VIDEO REC jack: The video signal from this jack is fed to the VIDEO INPUT jack of the VCR for recording, copying or editing purposes.

AUDIO REC jacks: The audio signals from these LEFT and RIGHT jacks are fed to the LEFT and RIGHT AUDIO INPUTS of the VCR for recording, copying or editing purposes.

14. VIDEO/AUDIO INPUT JACKS OF VCR 2

If you have additional play only VCR, use these jacks.

15. VIDEO/AUDIO INPUT (PLAY) JACKS OF VDP

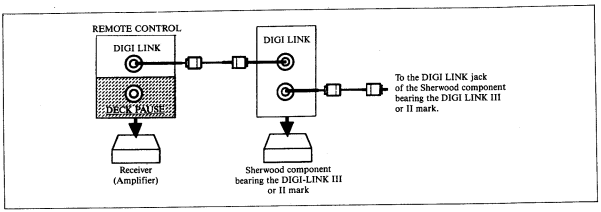
The VIDEO and AUDIO OUTPUT signals coming from your LD player (VDP) or CDV player are fed into these jacks.

16. VIDEO MONITOR JACKS

The video signal selected with the VIDEO FUNCTION SELECTOR is also available through this jack for video monitoring purposes. Connect this jack to the VIDEO INPUT of your TV/MONITOR.

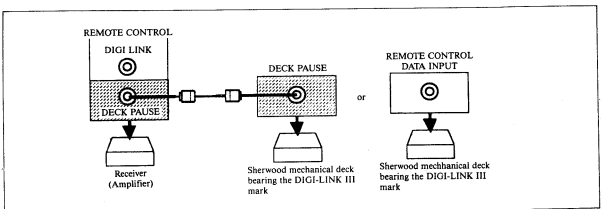
17. DIGI LINK JACK

Connect this jack to the DIGI LINK jack of another component including logic control cassette deck.


REMOTE CONTROL
DIGI LINK
DECK PAUSE
DIGI LINK
To the DIGI LINK jack of the Sherwood component bearing the DIGI LINK III or II mark.
Receiver (Amplifier)
Sherwood component bearing the DIGI-LINK III or II mark

18. DECK PAUSE OUTPUT JACK

Connect this jack to the DECK PAUSE INPUT jack of the mechanical control cassette deck bearing the DIGI-LINK III mark or to the REMOTE CONTROL DATA INPUT jack of the mechanical control cassette deck bearing the DIGI-LINK II mark.
"If logic control cassette deck is matched, leave this jack without connection."



19. FRONT, CENTER, REAR PRE OUT and MAIN IN JACKS

[FRONT PRE OUT]

When a separate power amplifier is used to drive the front speakers, connect the power amplifier to these jacks.

[FRONT MAIN IN]

When a separate pre-amplifier is connected and this unit is used as power amplifier, connect the preamplifier to these jacks.

NOTE: When you do not use the PRE OUT or MAIN IN, always connect the PRE OUT and MAIN IN jacks with a short ring.

[CENTER PRE OUT]

When a separate power amplifier is used to drive the center speaker, connect the power amplifier to these jacks.

[REAR PRE OUT]

When a separate power amplifier is used to drive the rear speakers, connect the power amplifier to the these jacks.

20. CENTER SPEAKER TERMINAL

Connect the center speaker to this terminal.
We recommend you use a center channel speaker of 8-16 ohms impedance.

21. REAR SPEAKERS TERMINALS

Connect the rear speakers to these terminals.
We recommend you use rear speakers of 8-16 ohms impedance.

22. SPEAKER OUTPUT A and B TERMINALS

The receiver enables you to listen to two pairs of speakers individually or in various combinations. Connect your main left (L) and right (R) speakers to the corresponding "A" speaker terminals and use "B" speaker terminals for a remote pair located elsewhere in your home. For all speaker connections, make sure that the wiring is correct. L/R terminals on the receiver must be connected to the plus (+) terminal on the speaker, and likewise G/G (ground) terminals to the negative (−) terminal.

Caution: To prevent overheating an individual speaker's impedance must be 8Ω min., especially when using "A" speakers only or using "B" speakers only.

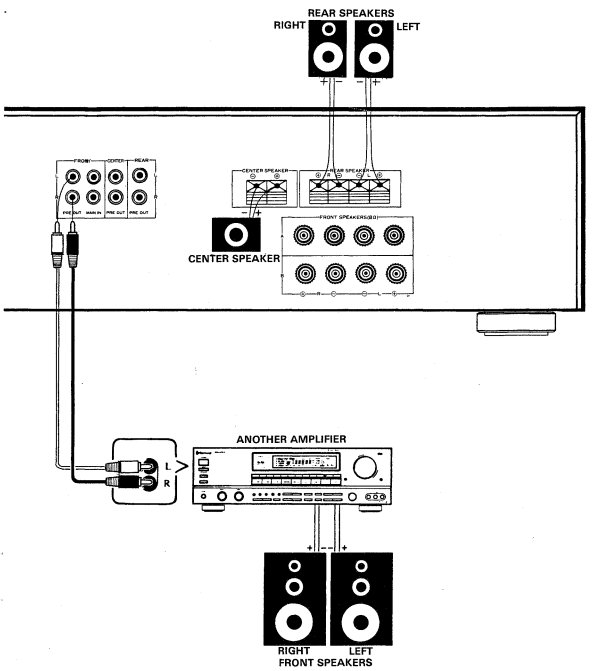
23. AC INPUT CORD

Plug this cord into a wall AC outlet.

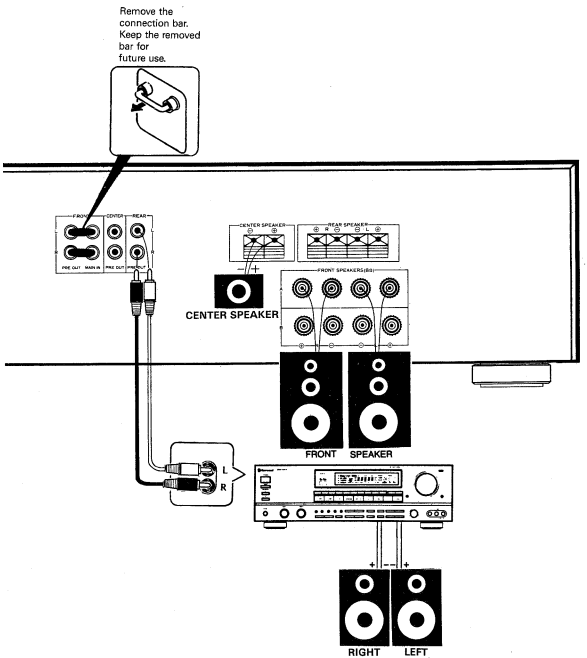
24. AC SWITCHED OUTLET

This outlet provides AC power.
The AC power is switched by the power button.
Use this outlet for a CD player or a cassette deck.

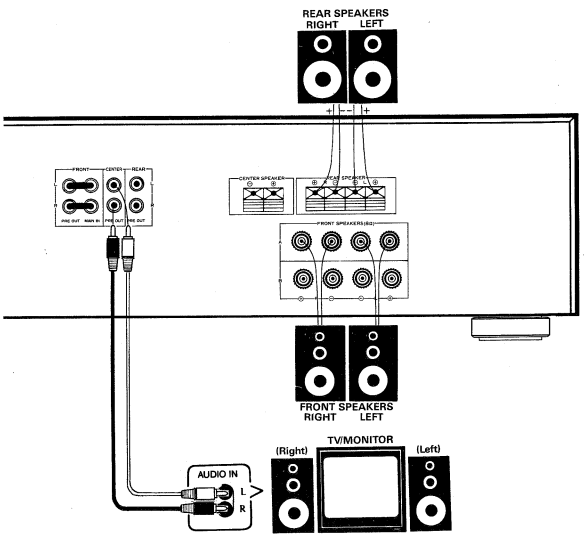
Setup for unit driving the rear and center speakers with another amplifier or receiver driving the front speakers:



Setup for unit driving the front and center speakers, with another amplifier or receiver driving the rear speakers:



Setup for unit driving the front and rear speakers, with another amplifier or TV driving the center speakers:



Front Panel Controls

1. POWER BUTTON

Press this button to turn the power on. Press again to turn the power off. It can also be used as system power button. If no sound comes from either channel after the power is turned on, check whether AC power cord is accidentally disconnected, SPEAKER buttons are incorrectly selected, TAPE 2 MON. BUTTON is set to MONITOR position, MUTE button on the remote control commander is in ON or power fuses are blown.

NOTE: In POWER OFF state, the "STAND BY" indicator will light up and the power is partially supplied into the infrared remote control receiver and the memory circuitry. The power consumption under the "STAND BY" state is about 5 watts.
Automatic Power On: Refer to the remote control section on page 27.

2. SLEEP BUTTON

Activates the SLEEP timer. The length changes in the following manner each time the key is pressed.

→10 → 20 → 30 → 60 → 90 → OFF →

When the sleep time is set, whole function displays of Sherwood components bearing the DIGI-LINK III make are dimly lit.

3. SPEAKER SELECTOR BUTTONS: A/B

These buttons allow you to select various combinations of speakers as follows;

a. To activate "A" speakers only connected to "A" speakers terminal on the rear panel, push the "A" switch in only.
b. To activate "B" speakers only connected to "B" speakers terminal on the rear panel, push the "B" switch in only.
c. To activate both "A" and "B" speakers, push the "A" and "B" switches on.
d. To activate headphones only for private listening or monitoring, push both "A" and "B" switches off.

Caution: In the case of a. and b. use 8Ω min. speakers. In the case of c. use 4Ω min. speakers each.

4. HEADPHONE JACK

Stereo headphones can be plugged into this jack for private listening, set the SPEAKER selector switches to OFF. Headphone impedance should be between 8 and 2,000 ohms. Best results will occur between 200 and 400 ohms.

5. BASS CONTROL

Modifies the low frequency sound of the left and right channels by as much as ±10dB. Set this control at a suitable position for your taste and room acoustics.

6. TREBLE CONTROL

Modifies the high frequency sound of the left and right channels by as much as ±10dB. Set this control at a suitable position for your taste and room acoustics.

7. BALANCE CONTROL

This control is used for balancing the relative sound volume of the left and right channel speakers in the normal STEREO operation. Clockwise rotation reduces the volume from the left speaker, counterclockwise rotation reduces the volume from the right speaker in STEREO operation.

8. SURROUND MODE SELECTORS

Switches for selecting desired surround mode; Stadium, Theater, Dolby 3CH, DOLBY PRO LOGIC. See the SURROUND SOUND EFFECT page.

9. CENTER MODE BUTTON

This operates if DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC is on. The setting changes in the order listed below each time you press the switch.

NORMAL – Use this setting when using a small enclosure center channel speaker incapable of reproducing frequencies below 100 Hz.

WIDE – Use this setting when using a large enclosure center channel speaker capable of reproducing frequencies below 100 Hz.

PHANTOM – Use this setting when no center channel speaker is being used.

NOTE: If no center speaker is used, the mono signals and center channel signal components will not be reproduced at positions other than at the PHANTOM position.

10. TEST TONE BUTTON

Operates when the DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC mode is selected. When the switch is turned ON, "TEST" appears on the display section and a test tone approximately 2 seconds in duration is generated in all channels (left-center-right-rear) in succession.

11. CENTER LEVEL (UP/DOWN) BUTTONS

Use these buttons to adjust the center speaker sound level relative to the level of the front speakers. Operates when DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC mode is ON. After making adjustments use the MASTER VOLUME control to adjust the overall sound to a suitable level.

12. REAR LEVEL (UP/DOWN) BUTTONS

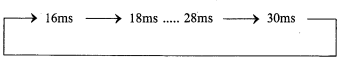
Operates only when the surround mode is on. These buttons are used to preset the sound level difference between the front and rear speakers. For adjustment, set the MASTER VOLUME control at the desired level and press this button up or down until you get the optimum surround effect at your listening position.

13. DELAY TIME BUTTON

Operates only when the surround mode is on.

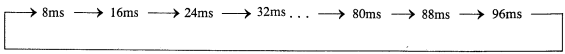
[DOLBY PRO LOGIC MODE]

Adjusts the surround delay time in steps.
For dolby surround, 20ms is standard.



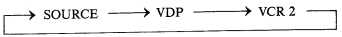
[STADIUM and THEATER MODE]

Adjusts the surround delay time in 12 steps:



14. VCR 1 RECORD BUTTON

When recording simulcast programs, the recorded source can be selected from VCR2, VDP, SOURCE;



The current setting is shown by an indicator on the display section. This is used to replace the sound of VCR 1 with that of an AUDIO source during video dubbing.

15. PRESET SCAN BUTTON

Button for scanning preset station frequencies.

- Press this button when a frequency stored in memory is received.
- Reception shifts to the next preset station frequencies in numerical order of preset stations until you return to the frequency which had been received just before you pressed the button. Each preset station will be heard for a few seconds before shifting to next station.
- Press this button again to stop scanning.

NOTE: By pressing the STATION PRESET Button, PRESET SCAN Button, you can not only listen to the radio broadcasting, but change the FUNCTION SELECTOR SWITCH to Tuner automatically without pressing it again.

16. AUTO/MANUAL TUNING SELECTOR BUTTONS

Use this switch for selecting AUTO or MANUAL scanning with the UP/DOWN tuning button. In AUTO operation, when you press the UP/DOWN tuning button scanning is automatically continued up or down until the next station is picked-up. In MANUAL operation, the frequency display is skipped by one channel up or downward whenever the UP or DOWN button is pressed. If you keep pressing the UP/DOWN tuning button, skipping will automatically continue until the UP/DOWN tuning button is released, or until the end of the band frequency is reached.

NOTE: THE INTERVALS OF BOTH AUTO AND MANUAL SCANNING ARE;

BAND	USA/CANADA Version	EUROPE/AUSTRALIA Version
FM	200 KHz	50 KHz
AM	10 KHz	9 KHz

17. FM MODE BUTTON

Determines the manner in which a received station will be reproduced by the tuner.

- STEREO; Provides automatic stereophonic reception of any FM Stereo Broadcast.
- MONO; The left and right channel signals detected from an FM Stereo Broadcast are mixed and reproduced through both channels. The noise level of weak FM Stereo stations can be greatly improved by switching tuner to mono.

18. STATION MEMORY BUTTON

This button works in conjunction with AM/FM STATION PRESET to store preset stations (up to total 30 stations) in memory.

19. UP/DOWN TUNING BUTTONS

Press the down button (▼) to tune in lower frequency stations and the up button (▲) to tune in higher frequency stations.

20. FM/AM BAND SELECTOR

For selecting the desired band. (either FM or AM)

21. STATION PRESET BUTTONS

When these buttons are pressed, the stations stored in memory will be recalled. For example, press buttons '3' or '2' and '9' in sequence for preset numbers '3' or '29'. Wait at least 2 seconds before choosing a different station.

"By pressing the STATION PRESET Button, PRESET SCAN Button, you can not only listen to the radio broadcasting, but change the FUNCTION SELECTOR SWITCH to Tuner automatically without pressing it again."

22. TAPE 2 MONITOR BUTTON

- For listening to a source selected by the FUNCTION selector switch, set the TAPE 2 MONITOR button to the 'off' position.
- For playback or monitoring of a tape deck as a listening source, set the TAPE 2 MONITOR button to MONITOR position.

NOTE: When you use graphic equalizer, you should select TAPE MONITOR again after changing input function.

23. FUNCTION SELECTOR BUTTONS

Switches for selecting desired program source; PHONO, TUNER, AUX, CD, TAPE 1/DCC, TAPE 2/MON, VCR 1, VCR 2, or VDP.

When each FUNCTION is pressed, TAPE 2 MONITOR is released automatically.

NOTE: Recording source of TAPE 1, TAPE 2 MONITOR-out is as follows.

FUNCTION	Recording source to	
	TAPE 1-out	TAPE 2 MONITOR-out
Source (CD, Phono .....)	CD, Phono	CD, Phono .....
Source (CD, Phono .....)+TAPE 2 MONITOR	CD, Phono	CD, Phono .....
TAPE 1	–	TAPE 1

24. VCR 2 SELECTOR BUTTONS

Press this button to change the input function of VCR 2/CAMCORDER on the rear to the front.

25. LOUDNESS CONTROL

To compensate for the response of the human ear at low listening level (known as the Fletcher-Munson hearing curve), the high and low frequencies are automatically boosted when the switch is in ON position. In OFF position, the frequency response is flat at all volume levels.

Caution: This button is for use at low listening levels only.

26. MASTER VOLUME CONTROL

Turning this control clockwise increases the volume of the front channels (stereo), rear channels and center channel at the same time.

27. VOLUME LEVEL INDICATOR

The indicator will move in accordance with the volume level. This indicator will flicker if the mute button on the remote control commander is pressed.

28. SOURCE DIRECT SWITCH

In the OFF position, TONE controls function as they are set normally. In the ON position, the pre-amplified signals are directly connected to the main amplifier without passing through TONE control circuit, producing a flat frequency response, minimizing phase shift and improving sound quality.

29. VCR 2 INPUT JACKS

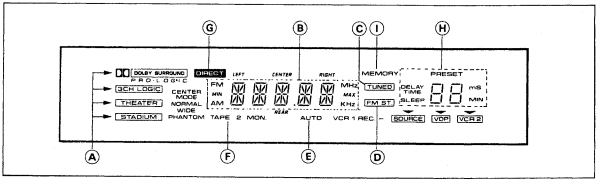
[VIDEO IN]

Connect to the VIDEO OUTPUT jack of the second VCR.

[AUDIO IN (L, R)]

Connect to the AUDIO OUTPUT jacks of the second VCR.

FL DISPLAY SECTION



30. FLUORESCENT DISPLAY PANEL

This display panel indicates the status of the operations for easier control of the receiver.

30-A. SURROUND MODE INDICATORS

Shows which surround mode is in use.

30-B. FUNCTION SELECTOR, CENTER, REAR LEVEL and FREQUENCY DISPLAY

Displays the input mode or tuned station frequency.

30-C. TUNED INDICATOR

Lights up when a broadcast is being properly received.

30-D. FM STEREO INDICATOR

Lights up when a FM stereo broadcast is being received.

30-E. AUTO INDICATOR

Lights up when the AUTO/MANUAL tuning mode selector is pressed to set the tuning mode to AUTO. In MANUAL mode, it goes off.

30-F. TAPE 2 MONITOR INDICATOR

Lights up when the input selector is set to TAPE 2 MONITOR ON.

30-G. DIRECT INDICATOR

Lights up when the pre-amplified signals are directly connected to the main amplifier without passing through the TONE control circuit.

30-H. PRESET NUMBER, DELAY TIME AND SLEEP TIME DISPLAY

Displays the preset station number in 2 digits (up to 30) and the delay time during surround operation. When the SLEEP timer is set, the remaining minutes are displayed.

30-I. MEMORY DISPLAY

When the MEMORY button is pressed, this indicator lights up for about 5 seconds. While this indicator is lit, press the PRESET buttons to store a station in memory.

Surround Sound Effects

Surround Sound

- The RV-6030R is equipped with 4 types of surround processors (DOLBY PRO LOGIC, DOLBY 3CH LOGIC, STADIUM and THEATER) to provide a sense of presence and expansion.
- Every day, we are exposed to sounds coming from our surroundings. Some sounds reach our ears directly from the source, some are indirectly reflected off of walls or ceilings. Sounds of voices reach us from behind, sounds of cars reach us from the side. Sounds coming from all around us are called "surround-sounds".
- One of the reasons that sound coming from a television is so different from the sound heard in movie theatres is that sound from a television usually comes only from in front of the viewer, with a surround system, nowever, the sounds of applause and cheers from the stands during a baseball game on TV come from in front and in back, from the left and from the right.
- The sound from a TV equipped with a single speaker (or 2 speakers on stereo televisions) sounds very different from the actual, "live" sound.
- The RV-6030R is equipped with 4 types of surround processors to recreate the sense of presence and to let you enjoy surround-sound in the privacy of your own home.

Surround Processors

- THEATER SURROUND
  This mode provides a three dimensional effect similar to that of a movie theater. With this mode, you can enjoy a surround effect similar to dolby surround sound, even when playing a video program which is not encoded with the Dolby surround system.

- STADIUM SURROUND
  The "stadium" effect creates efficient, reverberated sounds in order to obtain an expansive sound field. For music sources like a rock concert, you will feel as if you were actually at the concert live and seated very close to the stage. For sports programs, such as a baseball game, you can enjoy a powerful sound, thus obtaining the true stadium effect.

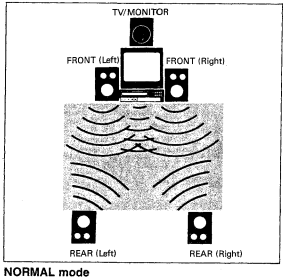
- DOLBY 3CH LOGIC SURROUND
  Combining the rear speaker signal with that of the front speakers results in your being able to enjoy a regenerated sound field. This results in comparatively more presence and a more expansive feeling from the front 3 channels (front L, front R, and center speakers) than from that of ordinary stereo regeneration.

- DOLBY PRO LOGIC SURROUND
  With a great number of movies made recent time, the sound track is specially encoded with the Dolby Surround mode carrying the DOLBY STEREO or DOLBY SURROUND trademark.* The front speakers provide the dialogue and normal stereo effect, while the rear speakers reproduce the surround signals. This position provides excellent results when watching television programs, video software, video discs or video tapes of stereo television broadcasts with Dolby Surround encoded.
  Dolby Stereo films have dramatically changed the role of the movie-goer from that of observer to that of participant. Clearer dialogue, richer music, enveloping ambience, on-screen, have made high-fidelity multi-dimensional sound an essential part of cinema presentations. Imaging recreating the same sort of audio-visual experience right in your own home...

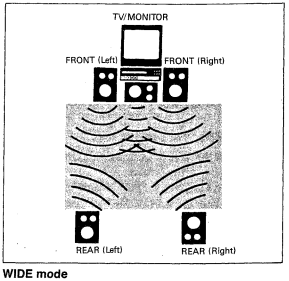
Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

Speaker Installation

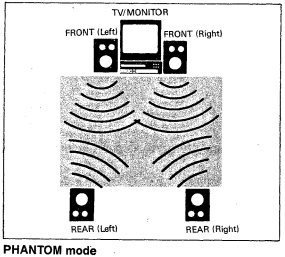
The RV-6030R incorporates a decoder which reproduces the specially encoded surround sound of Dolby surround video programs. In the Dolby surround mode, select the speaker operation mode according to your speaker system.



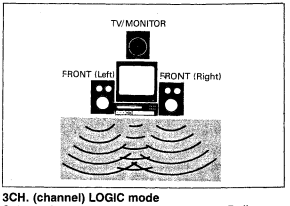
NORMAL mode
Select this mode if you use a small center channel speaker. The bass sound of the center channel is output from the front speakers, as a small speaker cannot produce enough bass.



WIDE mode
Select this mode if you use a medium to big center channel speaker.



PHANTOM mode
Select this mode when you play back a Dolby surround program source without using a center channel speaker.
The sound of the center channel is output from the front (L and R) speakers.



3CH. (channel) LOGIC mode
Select this mode when you play back a Dolby surround program source only with the front and center speakers.
The sound of the rear channel is output from the front (L and R) speakers.

Video Operations

NOTE: The source selector switch consists of a video signal section and an audio signal section. The video signal section's switch position selected last is retained in memory until the next video source selection is made.

■ PLAYING VIDEO SOURCES

1. Press the VCR 1, VCR 2 or VDP button.
2. Play the component corresponding to the button pressed (VCR 1, VCR 2 or VDP).
3. The picture from the video source can be seen on the TV/Monitor and the sound from the video source will be heard from the speakers.

NOTE: For playing video software using a certain surround effect function, refer to the SURROUND SOUND EFFECTS section.

■ RECORDING WITH A VIDEO DECK

A. GENERAL VIDEO RECORDING SYSTEM

1. Press the VCR 1 REC SELECTOR button to position the VCR 1 REC indicator's ▼ symbol above SOURCE on the display.
2. Press the VCR2 (or VDP) button with the TAPE 2 MONITOR set to OFF.
3. Operate the VCR 2 (or VDP) for playback.
4. Operate VCR 1 for recording. In this way, the video/audio signals from VCR 2 (or VDP) can be dubbed onto VCR 1.

B. SEPARATE AUDIO AND VIDEO PROGRAMS RECORDING SYSTEM

This feature lets you replace the sound from a VCR or VDP with sound from an AUDIO source such as CD during video signal dubbing.

1. Press the VCR 1 REC SELECTOR button to position the VCR 1 REC indicator's ▼ symbol above SOURCE on the display.
2. Press the VCR 2 (or VDP) button and operate the VCR 2 (or VDP) for playback.
3. Select the audio source with the source selector buttons (including AM/FM buttons and excluding TAPE 2 MONITOR button), and then operate the selected audio component for playback.
4. Now you can watch the picture from the video component on the TV/Monitor, and listen to the sound from the audio component through the speakers.

NOTE: Be sure to observe the order of steps 2 and 3.

C. SPECIAL VIDEO RECORDING SYSTEM

With the RV-6030R, while you are actually enjoying playback through the speakers and TV/Monitor, you can perform video – Tape dubbing (or VDP to VCR recording).

1. With the source selector buttons (including AM/FM buttons and excluding VCR 1 and TAPE 2 MONITOR buttons), select the program source you want to actually listen to and/or watch.
2. Play the component corresponding to the button pressed above.
3. Now you can enjoy the source through the speakers and TV/Monitor.
4. Press the VCR 1 REC SELECTOR button to position the VCR 1 REC indicator's ▼ symbol above VCR 2 (or VDP) on the display.
5. Operate VCR 2 (or VDP) for playback and VCR 1 for recording.

Operation

■ TUNER SECTION

1. Press the tuner button (FM or AM) on the front panel.
2. Three different ways can be selected for tuning (auto, manual and preset tuning).

A. AUTO TUNING

If signals are strong and there is no interference, quick auto search tuning is possible.

1. Press the AUTO/MANUAL TUNING selector so that the indicator "AUTO" lights up.
2. Press the TUNING button (DOWN or UP) for longer than one second to tune. The tuning will start automatically and stop at a broadcast station frequency with sufficient signal strength.
3. If the station where tuning stops is not the one you want, press the TUNING button once again.

NOTE: If the end of a tuning range is reached, tuning stops and begins again from the other end of the tuning range.

B. MANUAL TUNING

Auto tuning may be impossible if the station signal is weak. If so, use manual tuning.

1. Press the AUTO/MANUAL tuning selector so that the indicator light goes off.
2. Press the TUNING button (DOWN or UP) to tune.
   The frequency will change rapidly if the TUNING button is kept pressed.
   Release it slightly before reaching the desired frequency, then press it intermittently until the desired frequency is reached.

NOTE: If you are tuning into weak FM stations, press and set the MONO/STEREO button to MONO mode so that the FM STEREO display goes off.

C. PRESET TUNING

THE STATION PRESET buttons can be used to select, at a single touch, any desired station which has been preset.

1. Tune to the station to be put in memory using the AUTO/MANUAL TUNING SELECTOR switch.
2. Press the STATION MEMORY button and while the MEMORY display is lit (maximum of 5 seconds), press the desired preset station buttons.
3. To receive the preset station, press the corresponding preset station buttons.

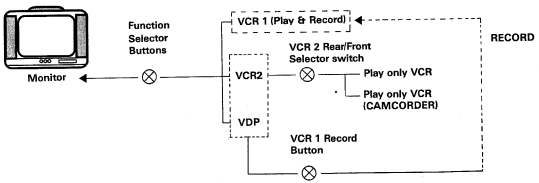
NOTE: The memory back-up circuit will prevent for at least 2 weeks the programmed information (up to 30 preset stations) and the last station tuned in to from being lost, even though the power is switched off and the AC cord and system is unplugged.

■ AMPLIFIER SECTION

1. Set the volume control to its extreme counterclockwise position.
2. Turn the POWER on so that the display panel is illuminated.
   If no indicators light up:
   – The set is not switched on.
   – The apparatus has not been connected to the power line.
   – The electrical outlet may be without power.
3. Switch to a desired external sound source connected to the input jacks on the rear panel. The external source may be a CD player, turntable, cassette deck, VCR 1, VCR 2 or VDP.
4. Select the desired sound source with the tape monitor or VCR button.

5. Operate the sound source selected for playback.
6. Slowly rotate volume control clockwise until you reach the desired sound level.
   If you hear nothing:
   - Are you sure the speakers have not been switched off?
   - Have you pressed the selection button for the sound source connected? Does the corresponding display indicator light up?
   - Are you sure this sound source functions properly?
   - Is the volume loud enough? Do not leave it in its extreme clockwise position.
   - Have the speakers been connected properly? Have the plugs been inserted deep enough into the jacks? When checking this, turn off the power of the unit.
   - If playing PHONO, TUNER, AUX/TV, TAPE 1/DCC, CD, VCR 1, VCR 2 or VDP, make sure that the TAPE 2 MONITOR function button hasn't been pressed. The 'TAPE 2 MONITOR' function button will override all other functions.
7. Adjust the stereo balance with the BALANCE control.
   If the sound is coming from one side only:
   - Is the position of the balance control correct?
   - Check the connection of the failing speaker. Before doing so, turn off the power switch.
   - Check the connections between the external sound source (e.g. the CD player) and the system.
   - If you are using headphones, make sure that the plug is completely inserted into the jack.

■ TV, VCR SECTION



① ——; Monitoring Process
② - - - - - -; Recording Process
①, ② can be processed simultaneously.

FCC INFORMATION

This equipment complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.
- Use different outlets for the equipment and the radio or TV.

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

DIGI-LINK III System Remote Control Operation

1. INFRARED TRANSMITTING WINDOW

A pulse code modulated (PCM) infrared beam is emitted forward from this window when you press any button on the commander.
For remote controls to work properly, always face this window towards the window of the remote sensor window on the receiver and do not obstruct this window with any material.

2. POWER BUTTON

Press this button to turn the power on and off.
• Automatic power on;
When you press the function buttons (CD, TUNER, TAPE 1/DCC, TAPE 2, TV/AUX, VCR 1, VCR 2, PHONO) in the STAND-BY mode, the power is automatically turned on and the function is selected.

3. PRESET SCAN BUTTON

Use this button for scanning preset station frequencies.
- Press this button when a frequency stored in memory is received.
- Reception shifts to the subsequent preset station frequencies in numerical order until it returns to the frequency which had been received just before you pressed the button. Each selected station is heard for a few seconds before shifting to next station.
- Press this button again to stop scanning.
- This button could operate in TUNER/TAPE 2 MONITOR mode without changing any INPUT SELECTOR BUTTON.

4. 10 KEY BUTTONS

This 10 key pad can be used for preset tuning in tuner mode, selection of the track number in CD mode.

NOTE: 1. Preset tuning: Press TUNER button first to change the receiver mode to TUNER operation and then press the desired preset number as one or two touch operation like 1, 2, ... 29, 30 for preset tuning (maximum applicable number is 30).
2. Selection of CD track number: Press button CD first to change the receiver mode to CD operation and then press the desired track number as one or two touch operation like 1, 2, ... 98, 99 (maximum applicable number is 99), then playing CD will start immediately.
3: When you want to use 10 key pad during recording with CD to select track number (in CD and TAPE 2 MON. mode), press the button of CD first and track number, otherwise press the button ⏮ (reverse skip), ⏭ (forward skip).

5. CD FUNCTION BUTTONS

- For CD PLAYER: DISC (CD SELECTOR when use Sherwood CD CHANGER CDC-5030R, CD-3030R, CD-4030R, CD-6030R), ▶ (play), ⏸ (pause), ■ (stop), ⏮ (reserse skip), ⏭ (forward skip), REPEAT and INTRO buttons are available.
- By pressing the ▶ (play), INTRO, RANDOM, BUTTON, you can right listen CD without any pressing of function selector buttons.

6. CASSETTE DECK FUNCTION BUTTONS

- For cassette deck: ⏸ (pause), ■ (stop), ● (record), ◀ (reverse play), ▶ (forward play), ◀◀ (rewind), ▶▶ (fast forward) buttons and A/B select switch are available.

• When you press the button of forward play ▶ or reverse play ◀, you can right listen CASSETTE TAPE without any pressing of function selector buttons.

NOTE: 1. For DD-2010C and DD-1010C, only the ▮ (pause) button is available.
2. If you use Sherwood single deck DS-3030C, DD-4030C, DD-6030C, you must set the deck A/B select button to A.

7. INPUT SELECTOR BUTTONS

These buttons are used for selecting desired program sources. The applicable buttons are CD, TUNER, TAPE 1/DCC, TAPE 2, TV/AUX, VCR 1, VCR 2, or PHONO. The VDP button is not available for this receiver.

NOTE: By presing the following buttons, you can not only play the Sherwood's desired program source, but change the FUNCTION SELECTOR SWITCH of this amplifier (receiver) to corresponding function automatically without pressing it again.
This function can be performed, when this amplifier (receiver) is connected with only Sherwood components bearing the DIGI-LINK III mark.

Pressing	What you Select.
Play Forward, Play Reverse	Tape 2 MONITOR
Play, Intro, Random	CD
Preset Scan	Tuner

NOTE
* When no disc is set in your CD tray, this function does not performed.
* When no cassette tape is set in your cassette door, this function does not performed. (Only logic control cassette deck is availble)

8. SURROUND SELECTOR BUTTONS

These buttons are used to select the desired surround mode.
• The STAD button selects the STADIUM mode for this receiver.
• The THEATER button is not available for this receiver.
• The 3-CH button selects the 3-stereo mode for this receiver.
• The D-TIME button sets the delay time.

9. EQUALIZER CONTROL BUTTONS (For use with optional Sherwood equalizer models: EQ-5010C and EQ-3010C)

• TAPE MON: Pressing this button alternates the display mode between EQ (graphic equalizer) and SPA (spectrum analyzer).
• PRESET: 6 factory-preset equalizer curves are stored in memory.
• USER: The user-adjusted equalizer can be programmed as desired and stored in memory; up to 6 patterns.
• FILE: If you press this button after selecting PRESET or USER mode, you can subsequently select any one of curves that is stored in PRESET or USER mode.

Up to 12 equalizer curve memories are available in total. (This function is not applicable for the receiver.)

10. CENTER LEVEL BUTTONS

Adjusts the volume level of the center speaker.

11. CENTER MODE BUTTON

Selects the center mode.

12. TEST TONE BUTTON

Generates a test signal that is sent to each speaker in succession.

13. REAR LEVEL BUTTONS

Adjusts the volume level of the rear speakers.

14. MASTER VOLUME BUTTONS

Adjusts the overall (front, rear, center) volume level.

15. DISPLAY BUTTON

Each time SYSTEM DISPLAY is pressed whole function displays of Sherwood components bearing DIGI-LINK III mark are changed in the following order: On → dimly lit → Off.
This SYSTEM DISPLAY function operates prior to DISPLAY function of other equipments.

16. SLEEP BUTTON

Sets the sleep time.

17. MUTE BUTTON

Reduces the sound to a low level (−60dB attenuation). The volume indicator blinks. Press again to restore the same listening level as before.

18. SPEAKER SELECTOR BUTTONS

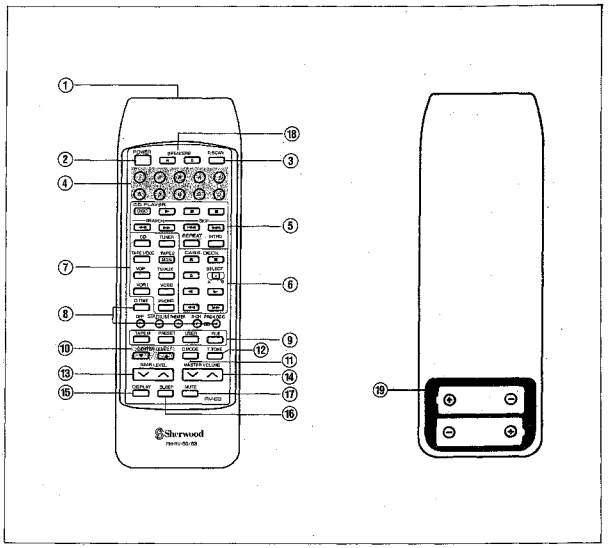
The use of these buttons is not available for this receiver.

19. DRY BATTERY CASE

This battery case is provided as the power source for the remote control. To remove the cover, press it down with your thumb and pull it towards the bottom. Two UM-3, size "AA" or R6·1.5V dry batteries are used. When loading the batteries, make sure that the polarity is correct. Remove the batteries from the case if the remote control will not be used for a long time.

IN CASE OF DIFFICULTY

If your receiver does not perform as expected, see the table below before consulting with your dealer or service representative.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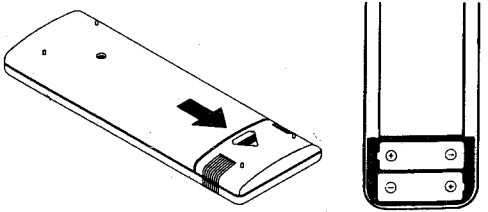
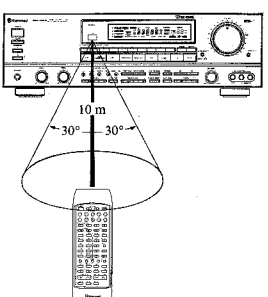
Sherwood





REMOTE CONTROL UNIT OPERATION RANGE

IN CASE OF DIFFICULTY

If your receiver should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

SYMPTOM	CAUSES	REMEDY
No power	1. Power cord not plugged in. 2. Poor connection at wall outlet. Power outlet inactive.	1. Check plug contact. 2. Check outlet using a lamp or another appliance (outlet may be controlled by a wall switch).
No sound from left and right speakers.	1. Speaker cords are disconnected. 2. Speakers are switched off.	1. Check speaker connections. 2. Check speaker switch.
No sound from the rear speakers.	1. Surround switch is set to off. 2. When the volume of the front speakers is set at a low level, the volume level of the rear speakers is indicated at a lower level. 3. Monaural source is being used.	1. Press the Surround switch ON. 2. Adjust the volume level of the rear speakers to its positive side. 3. Change the playback source to the stereo or surround source.
No sound from the center speaker	1. PRO LOGIC or 3CH LOGIC switch is set to off. 2. When the volume of the center speaker is set at a low level, the volume level of the center speaker is indicated at a lower level. 3. Center Mode switch is set to Phantom.	1. Press the PRO LOGIC or 3CH LOGIC switch ON. 2. Adjust the volume level of the center speakers to its positive side. 3. Set the Center Mode switch to Normal or Wide.
No sound is heard with the Speaker selector set to the "A+B" position.	A pair of speakers is not connected to the A or B speaker terminals.	Connect the two pairs of speakers correctly to both A and B speaker terminals. Or, switch the Speaker selector to the A or B position to which the speakers are connected.
No sound is produced, even when the INPUT selector switch is selected.	1. The muting switch is pressed. 2. Volume is turned down. 3. One or both of the input cords are disconnected. 4. Tape monitor switch is in the ON position. 5. Connection bars are disconnected.	1. Press the muting switch to cancel the muting effect. 2. Raise the volume. 3. Connect input cords securely. 4. Press the switch again to the OFF position. 5. Connect bars securely.
Remote control does not function.	1. Batteries are not loaded. Or batteries are. 2. The remote sensor is obstructed.	1. Replace the batteries with new ones. 2. Remove the obstacle from the remote sensor.

SYMPTOM	CAUSES	REMEDY
Occurs during AM reception only		
High frequency whistle, especially at night	Interference from TV set.	Turn off TV set, if problem disappears, relocate TV set.
High noise level	1. AM loop antenna is not pointing in right direction. 2. Noise being picked up from this unit and other equipment.	1. Change the direction of AM loop antenna and find a position where reception is improved. 2. Separate the loop antenna from the unit by some distance.
Occurs during FM reception only		
Hiss that gets worse stereo reception	Very weak antenna input signal	Consider an outdoor antenna installation. In areas remote from the transmitter, a 5 to 8 element antenna designed exclusively for FM is suggested.
Rhythmic static or popping noise.	Automobile ignition noise, especially evident when receiving weak signals.	Review antenna installation. Site the antenna as far from the street as possible and use coaxial cable.
'FM STEREO' indicator fails to light during stereo broadcast.	Another possible effect of a very weak signal.	Antenna system needs attention (see above).

Specifications

AMPLIFIER SECTION

Power Output Continuous RMS with no more than 0.05% THD
at 8 ohms, 20Hz-20KHz ..... 100W+100W
Rear Channel Power Output. 0.5% THD
at 8 ohms, 1KHz ..... 20W+20W
Center Channel Power Output. 0.05% THD
at 8 ohms, 1KHz 65W
Intermodulation Distortion, 60Hz: 7KHz=4:1 SAMPLE 100W output into 8 ohms 0.04%
Damping Factor at 1KHz, 8 ohms 70
Input Sensitivity for 100W output 8 ohms at 1KHz
Phono 2.5mV
Linear Inputs 150mV
Phono Input Overload at 1KHz, 0.1% THD 140mV
Signal to Noise Ratio, IHF "A" weighted/unweighted
Phono 70/66dB
Linear Inputs 92/86dB
Rear Channels 65/60dB
Center Channel 78/75dB
Frequency Response
Phono, RIAA 30-20,000Hz ..... ± 1dB
Linear Inputs at 1W, −3dB 5Hz-60KHz
Rear Channels at 1W, −3dB 80-7KHz
Center Channel at 1W, −3dB 50Hz-15KHz
Tone Contor, BASS at 100Hz, TREBLE at 10KHz ..... ± 10dB
Loudness Contour
at 100Hz ..... +6dB
at 10KHz ..... +3dB
Channel Separation at Linear Input shorted
at 100Hz 50dB
at 1KHz 50dB
at 10KHz 45dB

FM SECTION

	USA/ Canada	Australia/ Europe
Tuning Range	87.50-107.90MHz	87.50-108.00MHz
Scanning Frequency Interval (AUTO/MANUAL)	200KHz	50KHz

Usable Sensitivity IHF at S+N+D/N+D=30dB 13.2dBf
THD at 1KHz, 100% Mod, Mono 0.3%
Stereo 0.5%
Stereo Separtion at 1KHz 45dB
Signal to Noise Ratio IHF, Mono 70dB
Stereo 70dB
Frequency Response 30Hz-15KHz ..... ± 1.5dB
Audio Output Voltage, 1KHz, 100% Mod 600mV

AM SECTION

	USA/ Canada	Australia/ Europe
Tuning Range	520-1710KHz	522-1611KHz
Scanning Frequency Interval (AUTO/MANUAL)	520-1710KHz	522-1611KHz
Usable Sensitivity IHF at S+N/N+20 dB, Loop antenna	54dB/m	
Signal to Noise ratio, 30% Mod	45dB	
Audio Output Voltage, 400Hz, 30% Mod	200mV	

GENERAL

	USA/ Canada	Australia/ Europe
Power Consumption	2.5A	600W
Unit Dimension (W×H×D)	440×140×380mm	
Unit Weight	13Kg	

NOTE: Design and specifications are subject to change without notice for improvements.

Auspacken und Aufstellung

Wir Beglückwünschen Sie zu Ihrem Kauf!

Ihr neuer High-Fidelity-Receiver ist auf Jahre ungetrübten Klanggenusses und störungsfreien Betriebs hin ausgelegt. Nehmen Sie sich bitte ein wenig Zeit, um diese Anleitung sorgfältig durchzulesen. Hier werden die Eigenschaften und der Betrieb Ihres Receivers erläutert, und Sie erfahren, wie das Gerät fehlerfrei angeschlossen wird.

Packen Sie Ihren Receiver bitte vorsichtig aus. Wir empfehlen, den Karton und das Verpackungsmaterial aufzuheben. Das kann von Vorteil sein, wenn Sie das Gerät einmal transportieren müssen oder wenn es zur Reparatur geschickt werden sollte. Ihr Receiver muß waagerecht aufgestellt werden, und hinter dem Gerät sollten mindestens 5 cm Platz gelassen werden, um eine ausreichende Belüftung und den Kabelanschluß zu ermöglichen. Um vorzeitige Beschädigungen zu vermeiden, dürfen Sie das Gerät auf keinen Fall in der Nähe von Heizkörpern, vor Warmluftöffnungen, in direktem Sonnenlicht oder an sehr feuchten bzw. staubigen Orten aufstellen.

Schließen Sie die übrigen Bausteine Ihrer Anlage so an, wie es im folgenden Kapitel beschrieben wird.

VORSICHT
GEFAHR EINES ELEKTRISCHEN SCHLAGS NICHT ÖFFNEN
VORSICHT: UM DIE GEFAHR EINES ELEKTRISCHEN SCHLAGS AUSZUSCHALTEN, NEHMEN SIE DIE ABDECKUNG (ODER RÜCKWAND) NICHT AB. ES BEFINDEN SICH KEINE TEILE IM INNERN, DIE VOM ANWENDER GEWARTET WERDEN KÖNNEN. ÜBERLASSEN SIE ALLE WARTUNGSARBEITEN EINEM QUALIFIZIERTEM TECHNIKER.

WARNUNG

Setzen Sie dieses Gerät weder Regen noch Feuchtigkeit aus, um die Gefahr eines Brandes oder elektrischen Schlags zu vermeiden.

Dieses Symbol soll den Benutzer vor nicht isolierten "gefährlichen Spannungen" im Gerätegehäuse warnen. Diese Spannungen können groß genug sein, um Personen durch einen elektrischen Schlag zu verletzen.

Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß die Beschreibungen, die mit dem Gerät ausgeliefert wird, wichtige Bedienungs- und Wartungshinweise enthalten.